

**NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

October 27, 2011

**Group Chairman's Factual Report**

**STRUCTURES**

**DCA11MA075**

**Attachment 1**

**Figures**

Accident #: DCA11MA075 | N707AR

Description: 707 Airplane isometric view

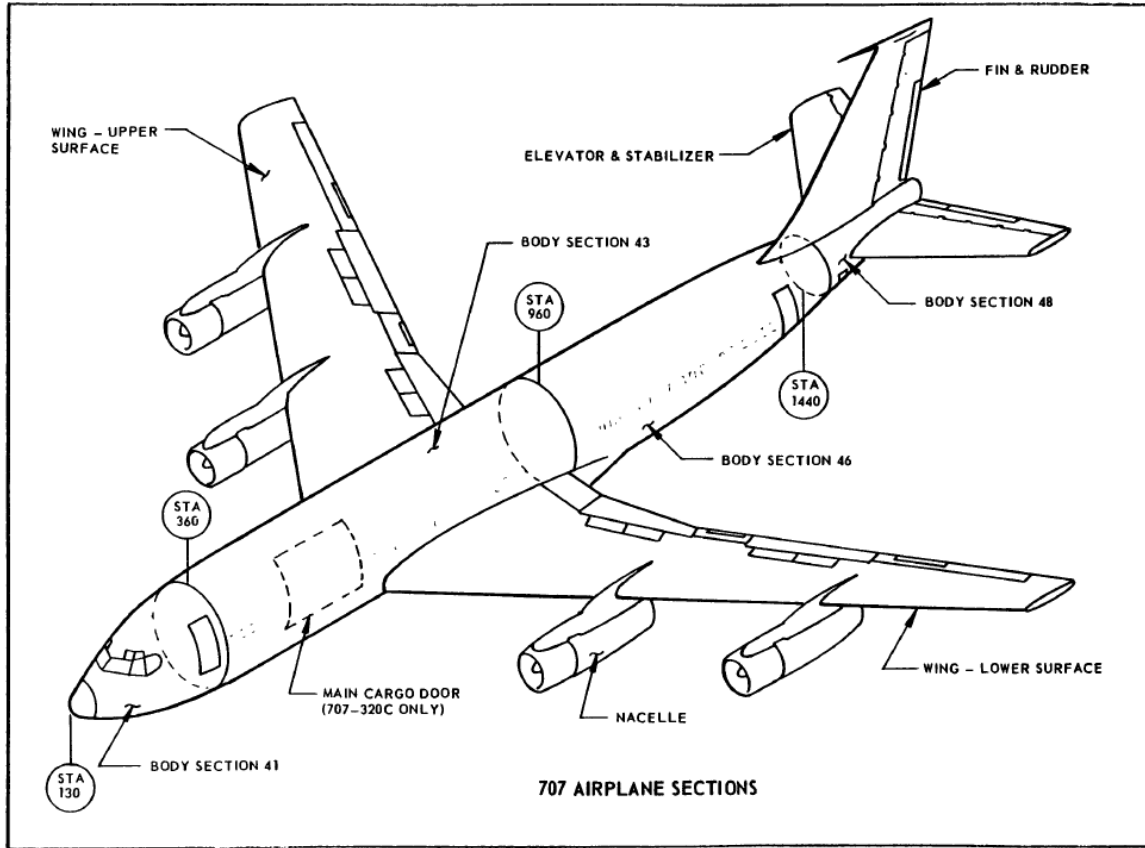


Figure 1: 707 Airplane isometric view graphic

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N707AR

Description: Accident airplane overview.



Figure 2: Accident airplane viewed from above

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Description: Accident airplane overview.



Figure 3: Accident airplane viewed looking aft

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Description: Accident airplane overview.



**Figure 4: Accident airplane viewed from the forward left**

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Description: Accident airplane overview.



**Figure 5: Accident airplane viewed from the left**

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Description: Accident airplane overview.



Figure 6: Accident airplane viewed from the forward right

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Description: Accident airplane overview.



**Figure 7: Accident airplane viewed from the right**



Accident #: DCA11MA075 | N707AR

Description: Accident airplane overview.



Figure 8: Accident airplane viewed from the aft right

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Description: Accident airplane overview.



**Figure 9: Accident airplane viewed from the aft left**

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Description: Airplane Dimensions.

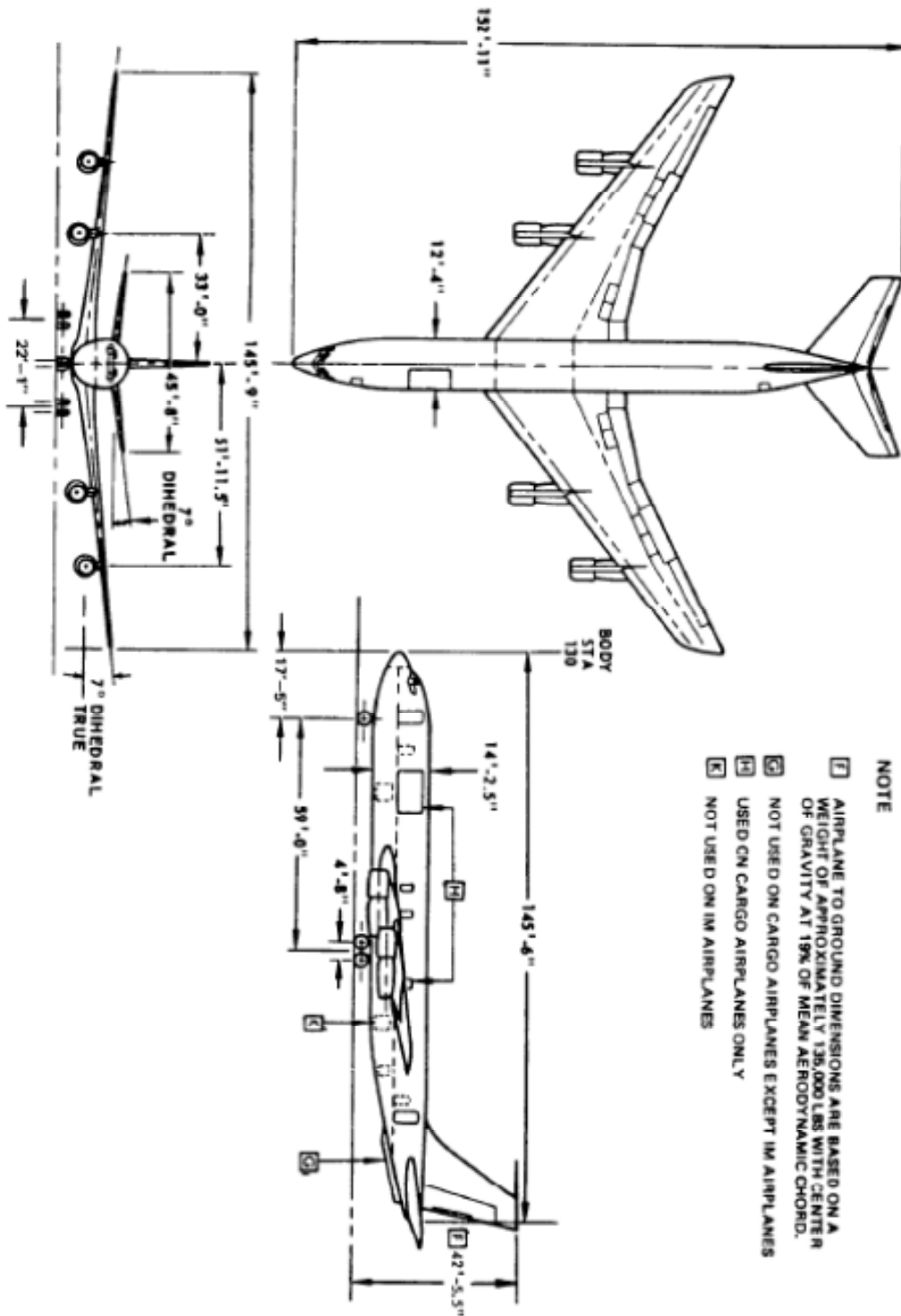


Figure 10: Airplane three view with dimensions graphic

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Description: Fuselage sections & Stations

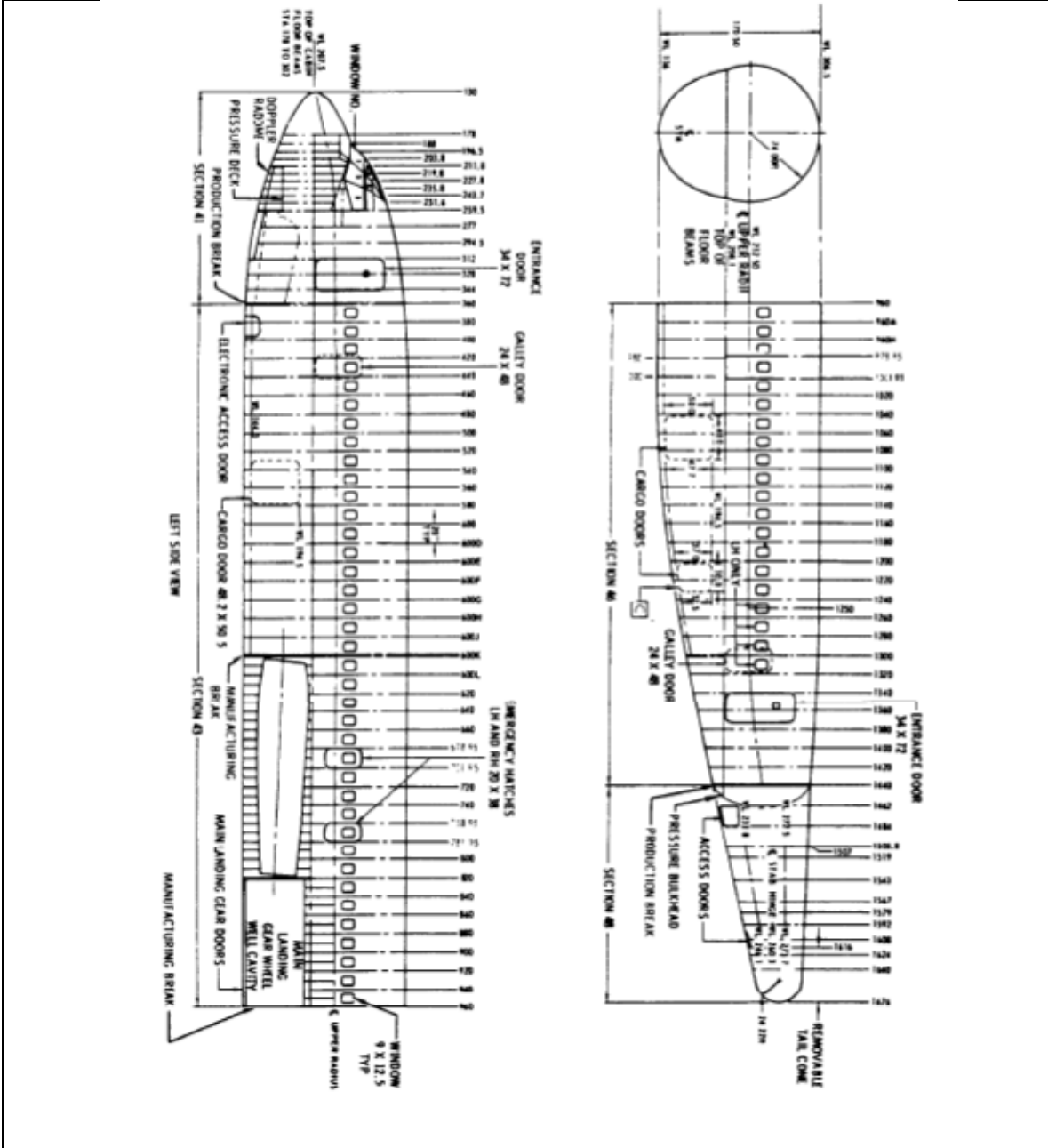


Figure 11: Airplane fuselage stations graphic

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Description: Fuselage cross section with stringer location identification.

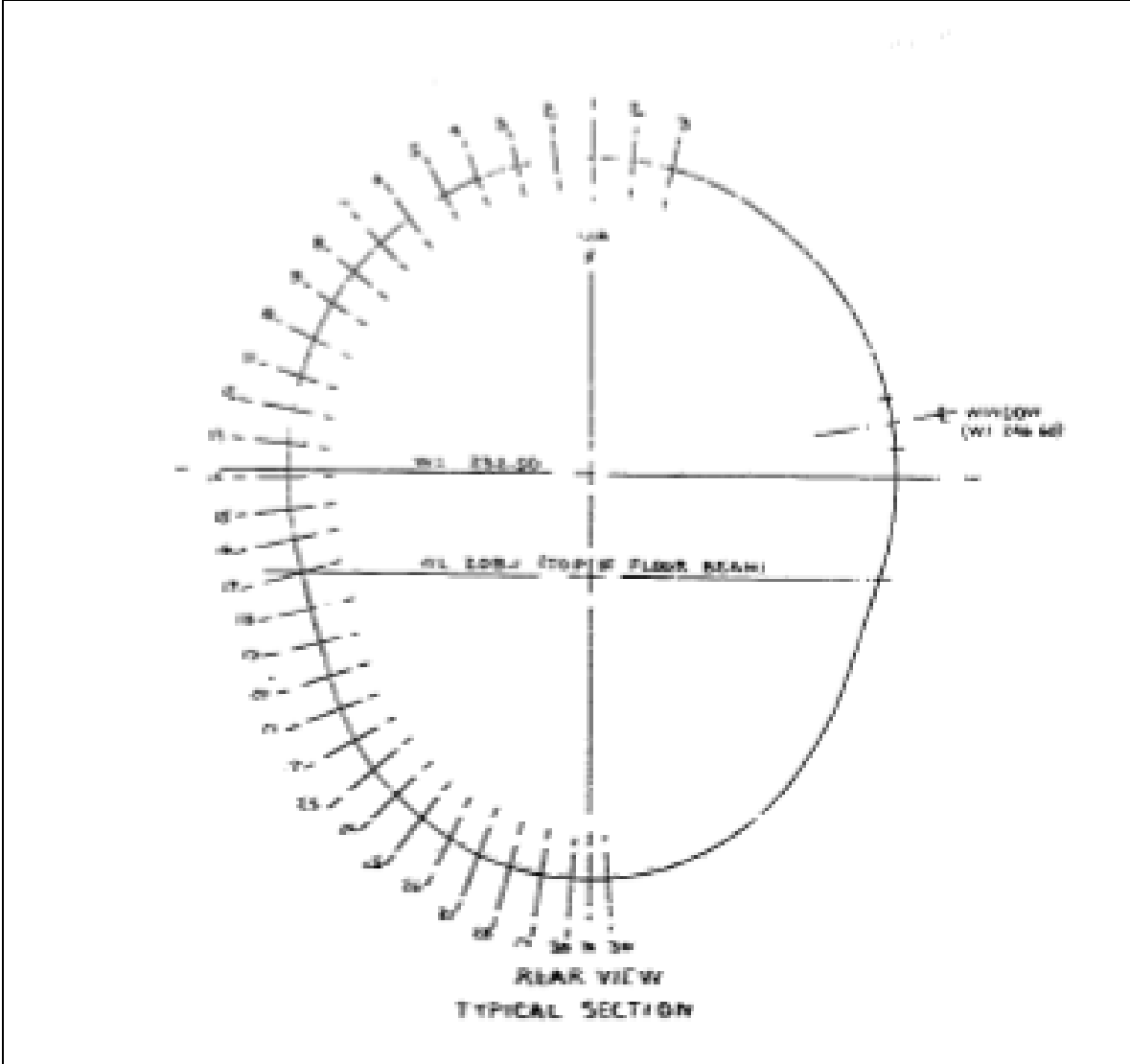


Figure 12: Fuselage cross section with stringer locations graphic

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Description: Inboard mid-spar fitting.

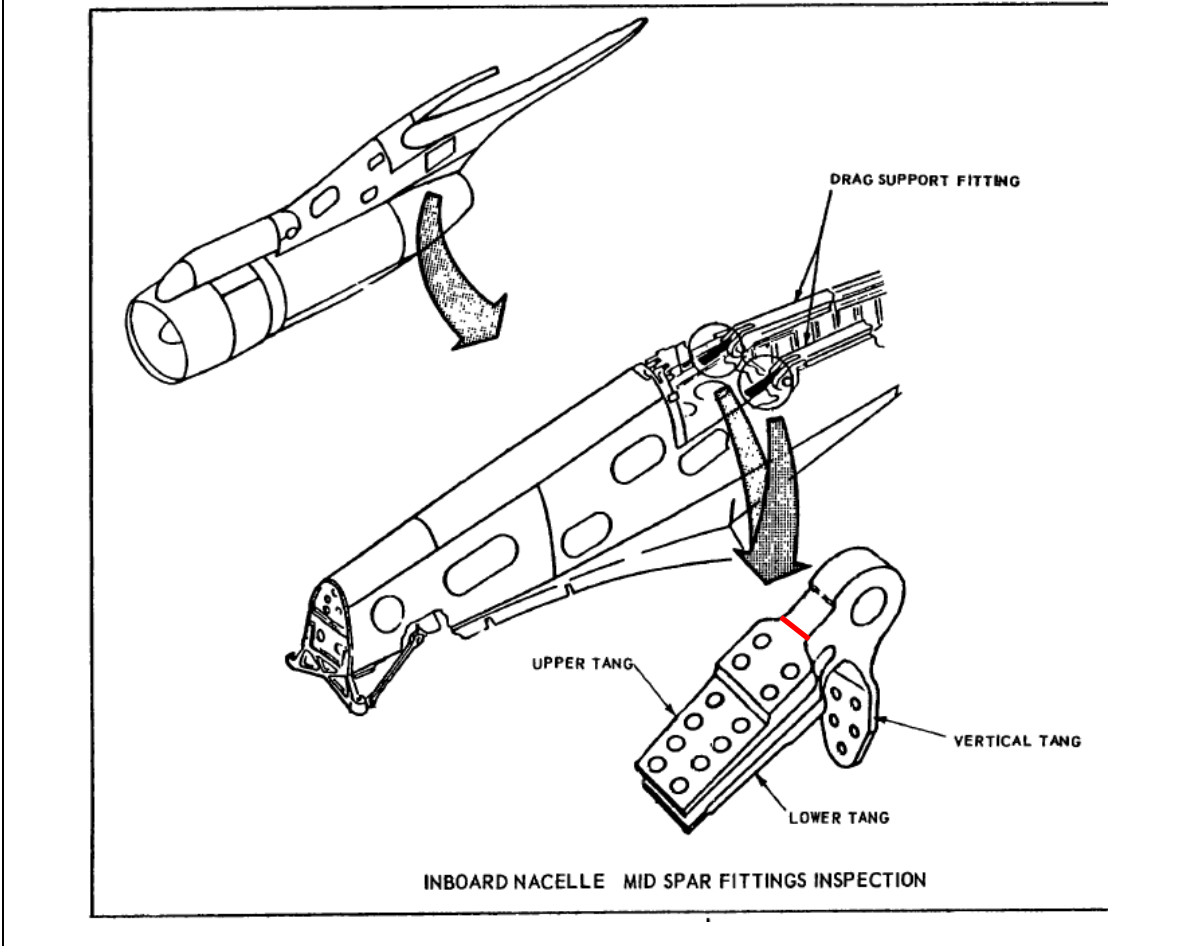


Figure 13: Inboard nacelle mid spar fitting graphic

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Description: Mid-spar fitting assembly with bulkhead.

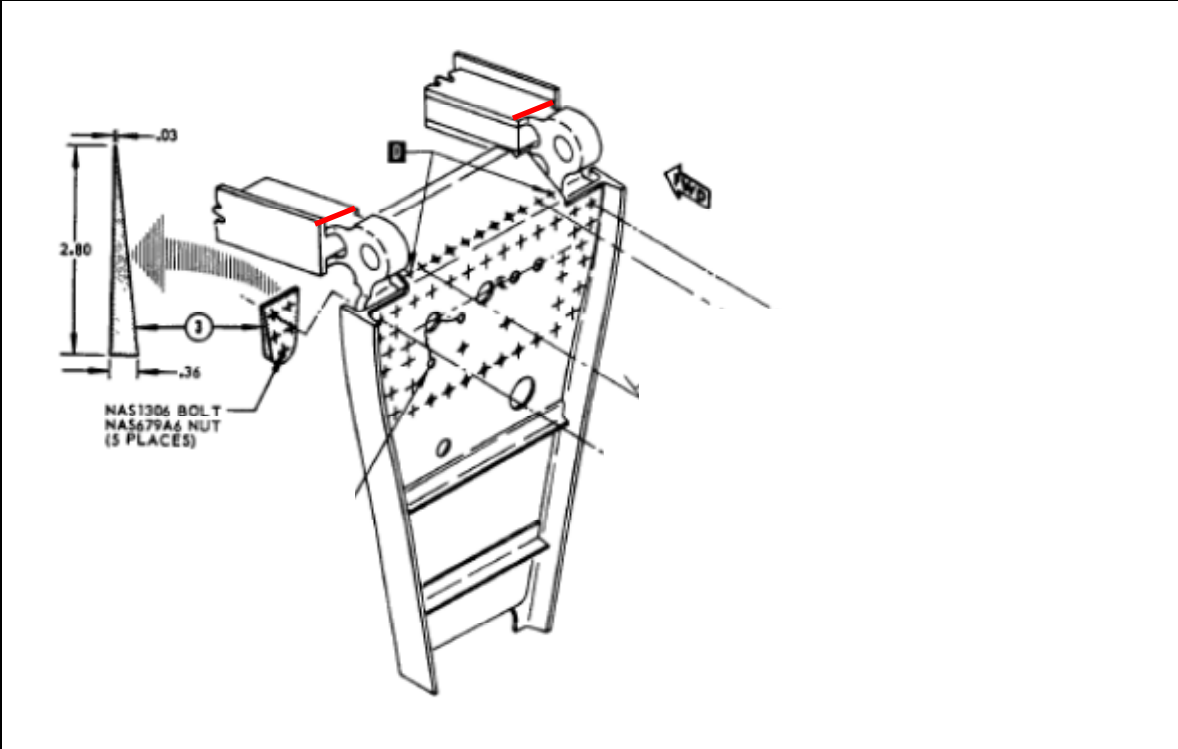


Figure 14: Mid spar fitting assembly with bulkhead graphic

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Description: Isometric & Side view of a mid-spar fitting

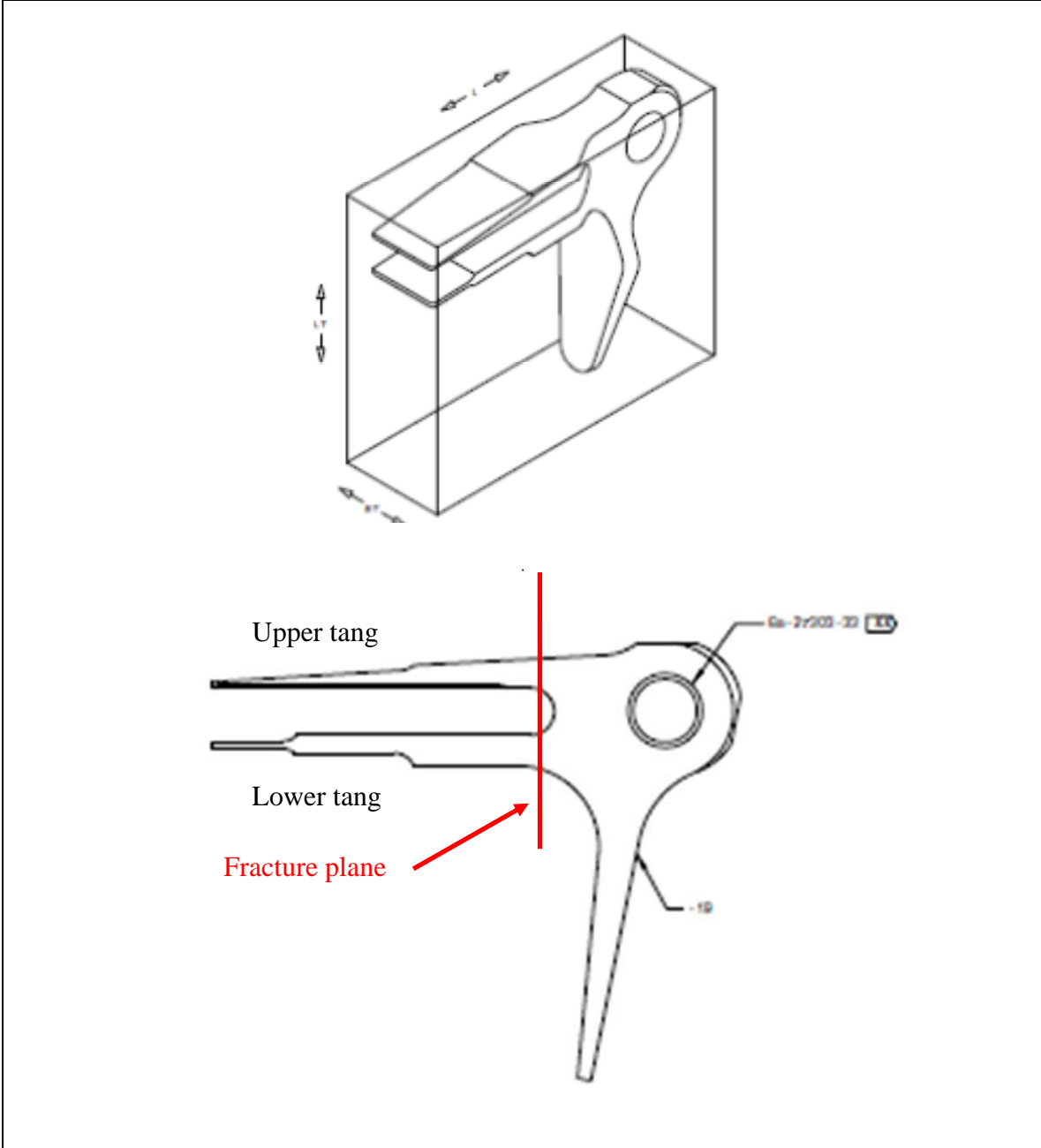


Figure 15: Mid spar fitting graphic



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Description: Number two pylon and engine.

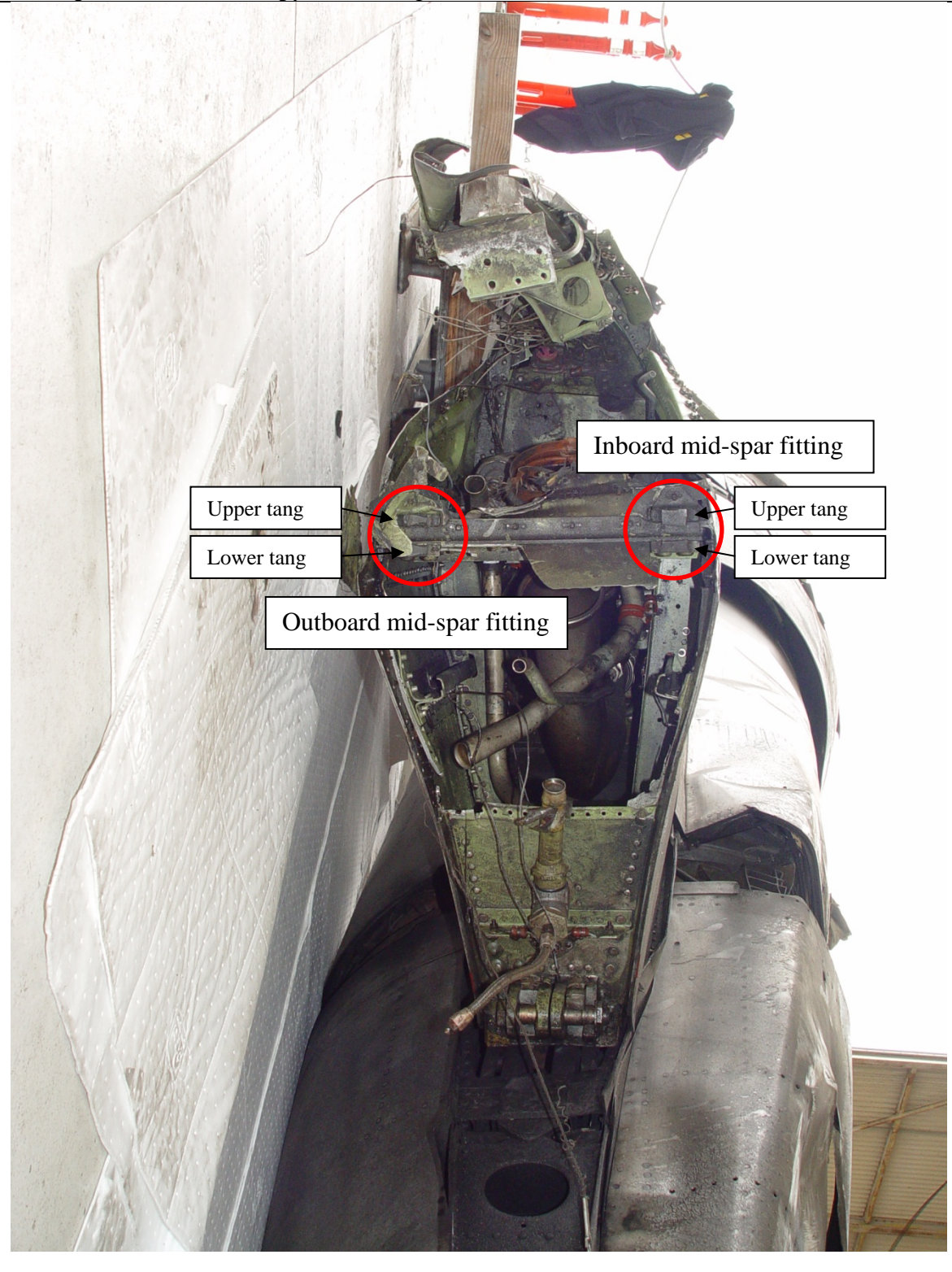


Figure 16: Number two pylon and engine assembly

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Description: Number two pylon inboard mid-spar fitting

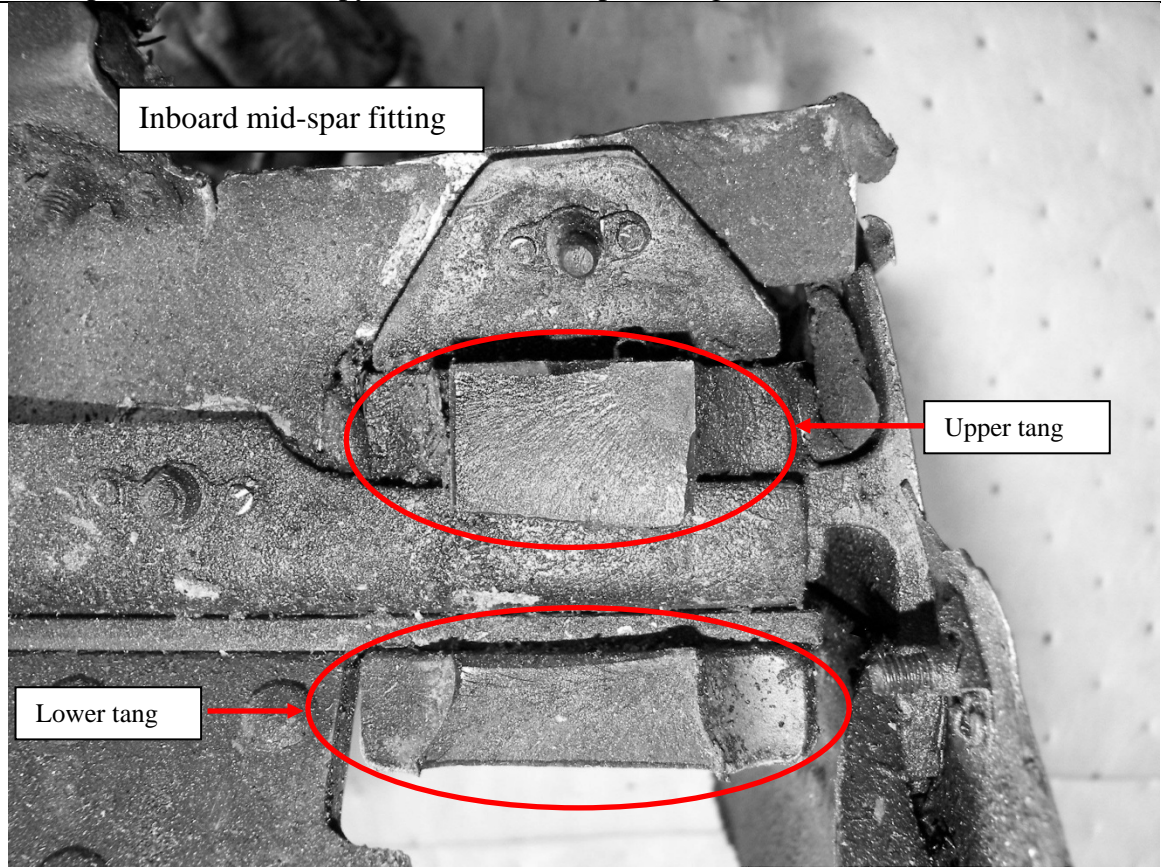


Figure 17: Number two pylon inboard mid spar fitting

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Description: Number two pylon Inboard mid-spar fitting upper tang fatigue region.

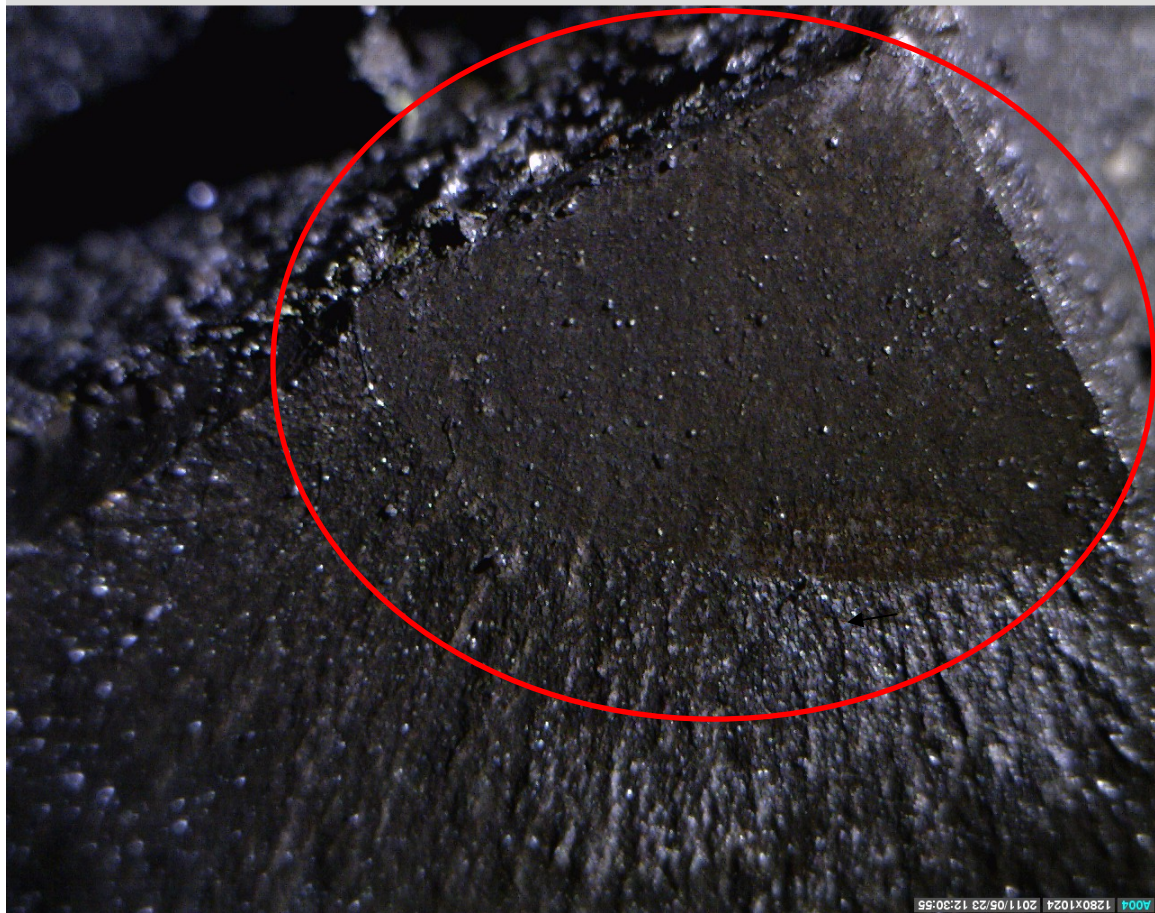


Figure 18: Number two pylon Inboard mid-spar fitting upper tang fatigue region

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Description: Number two pylon Inboard mid-spar fitting mating fracture surface.

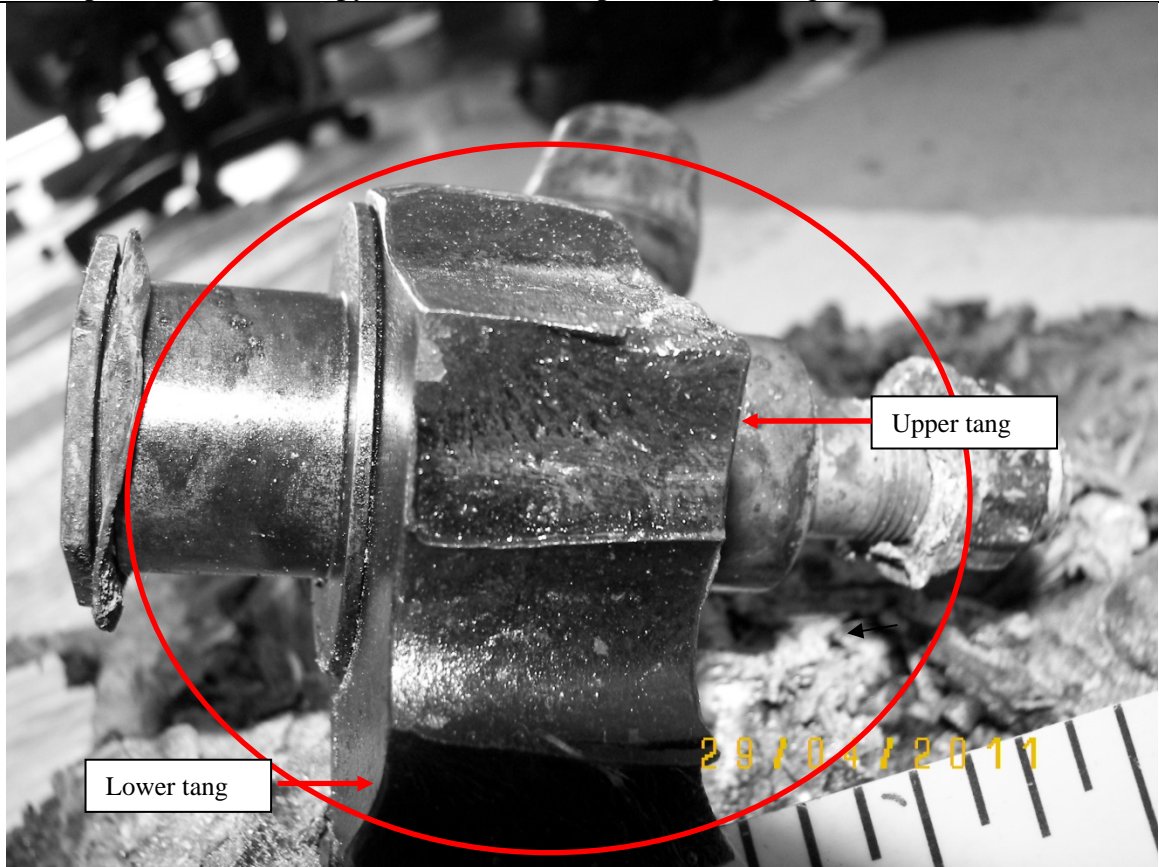


Figure 19: Number two pylon Inboard mid-spar fitting mating fracture surface

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Description: Forward drag fittings

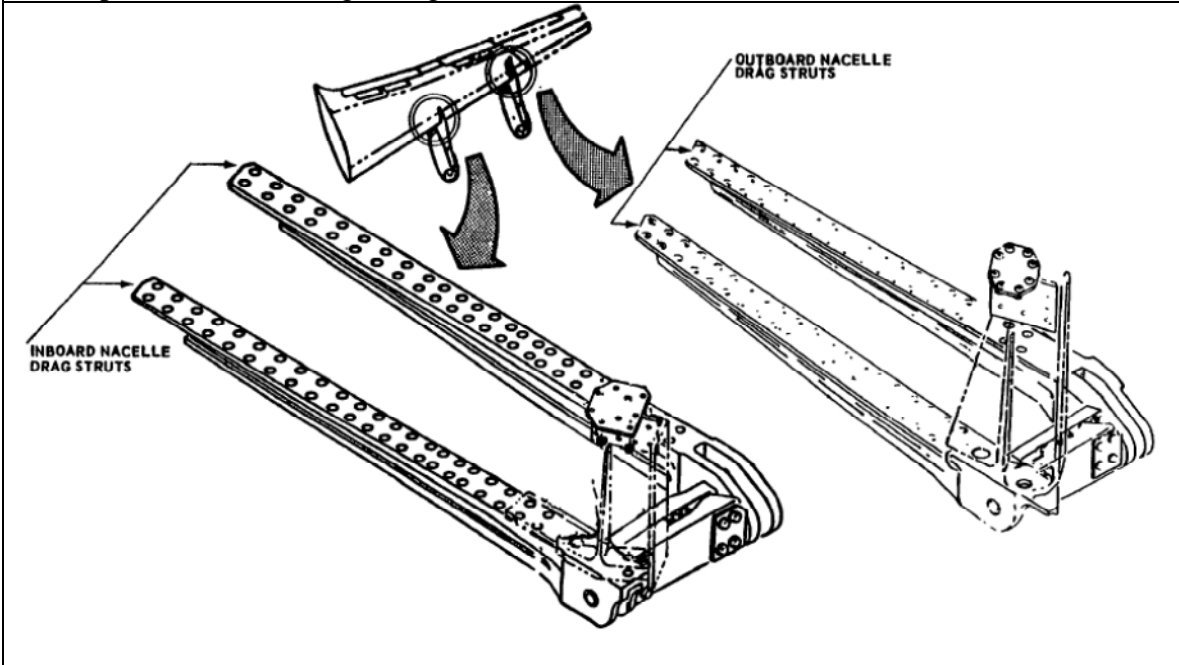


Figure 20: Forward drag fitting graphic

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Description: Lower spar fitting and diagonal brace attachments to wing aft drag fitting

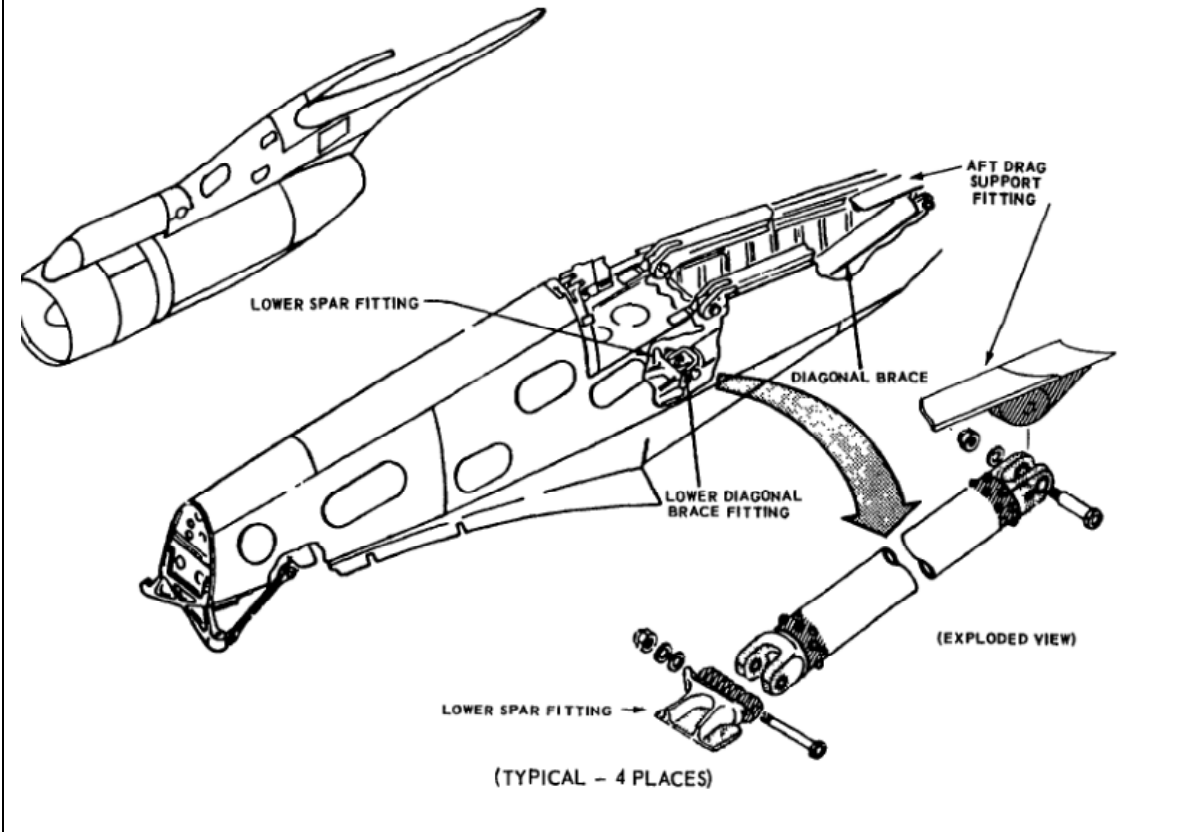


Figure 21: Lower spar fitting and diagonal brace attachments to wing aft drag fitting

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Description: Overwing Support Fitting

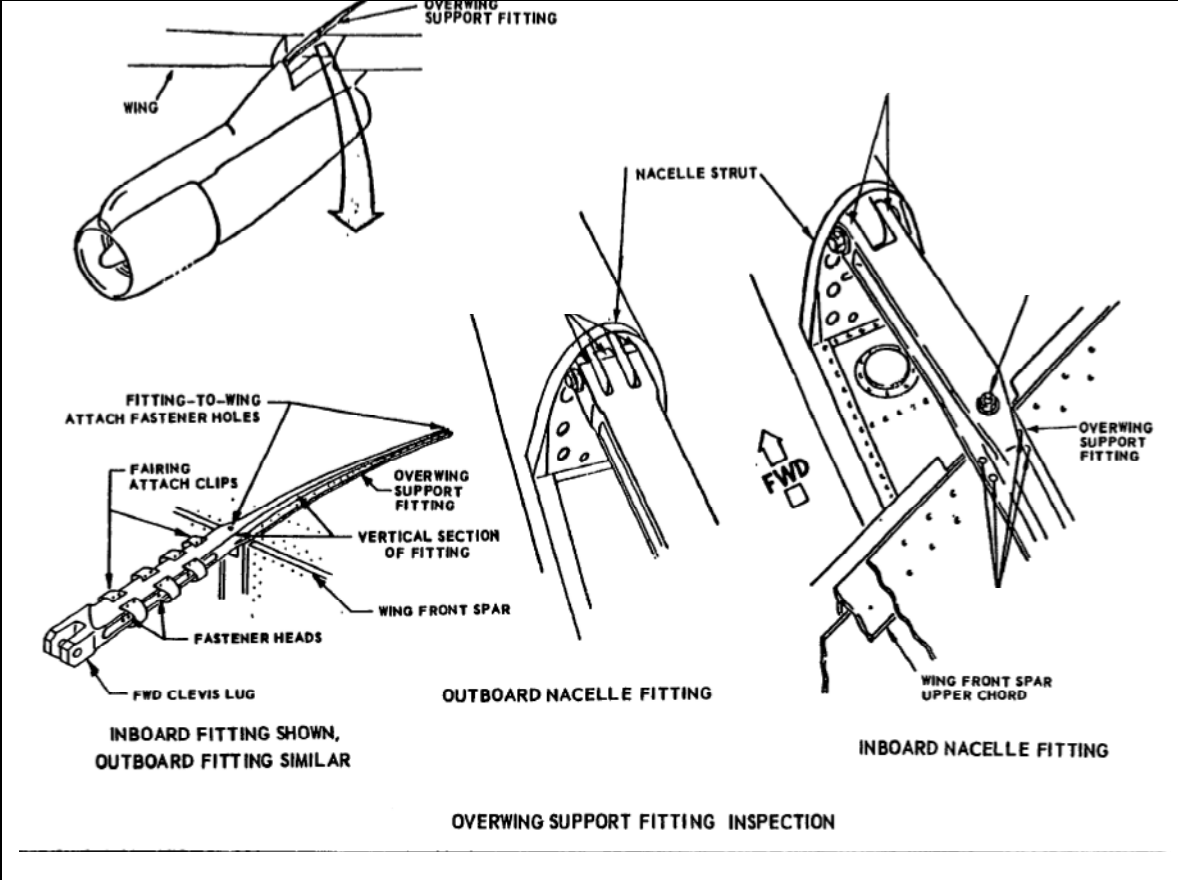


Figure 22: Overwing support fitting

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Description: Nacelle Vertical Support Fitting.

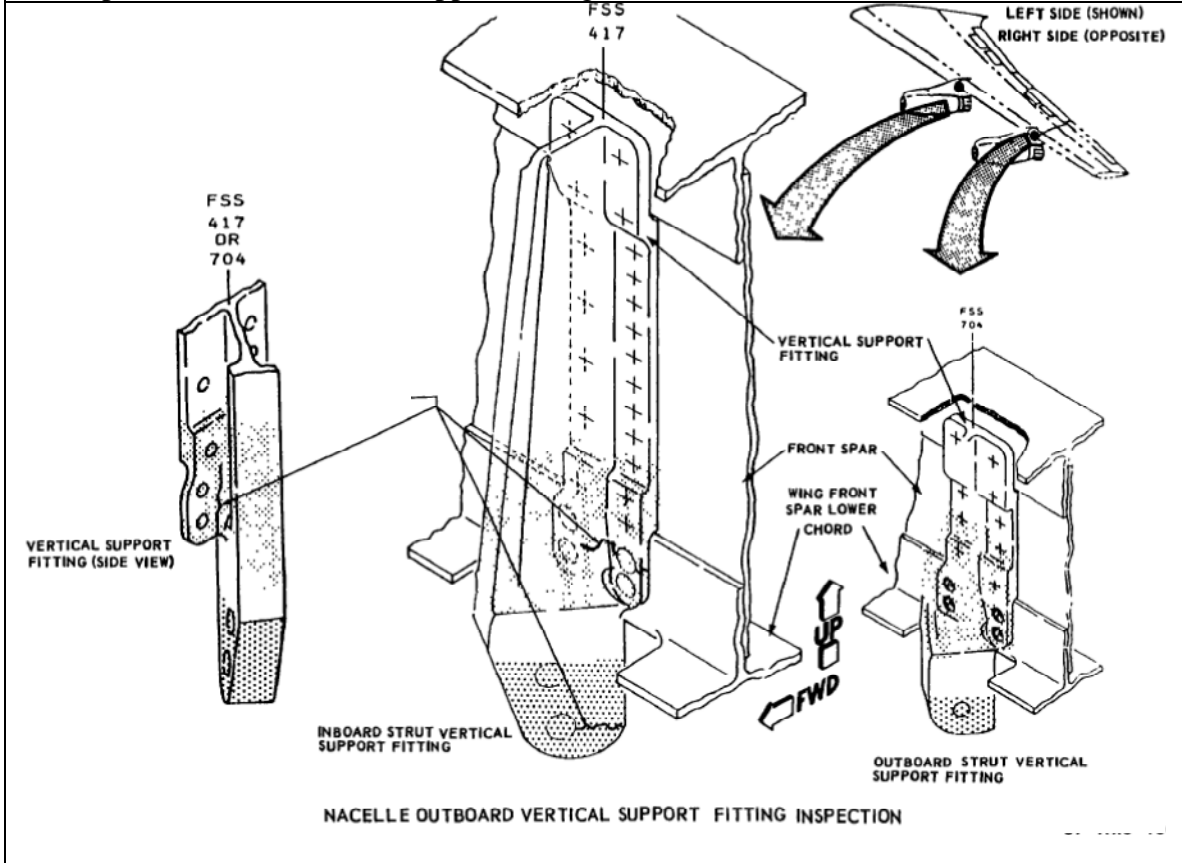


Figure 23: Nacelle outboard vertical support fitting